

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1344083

Luminaire Tested: P3A13R209835DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R209835DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

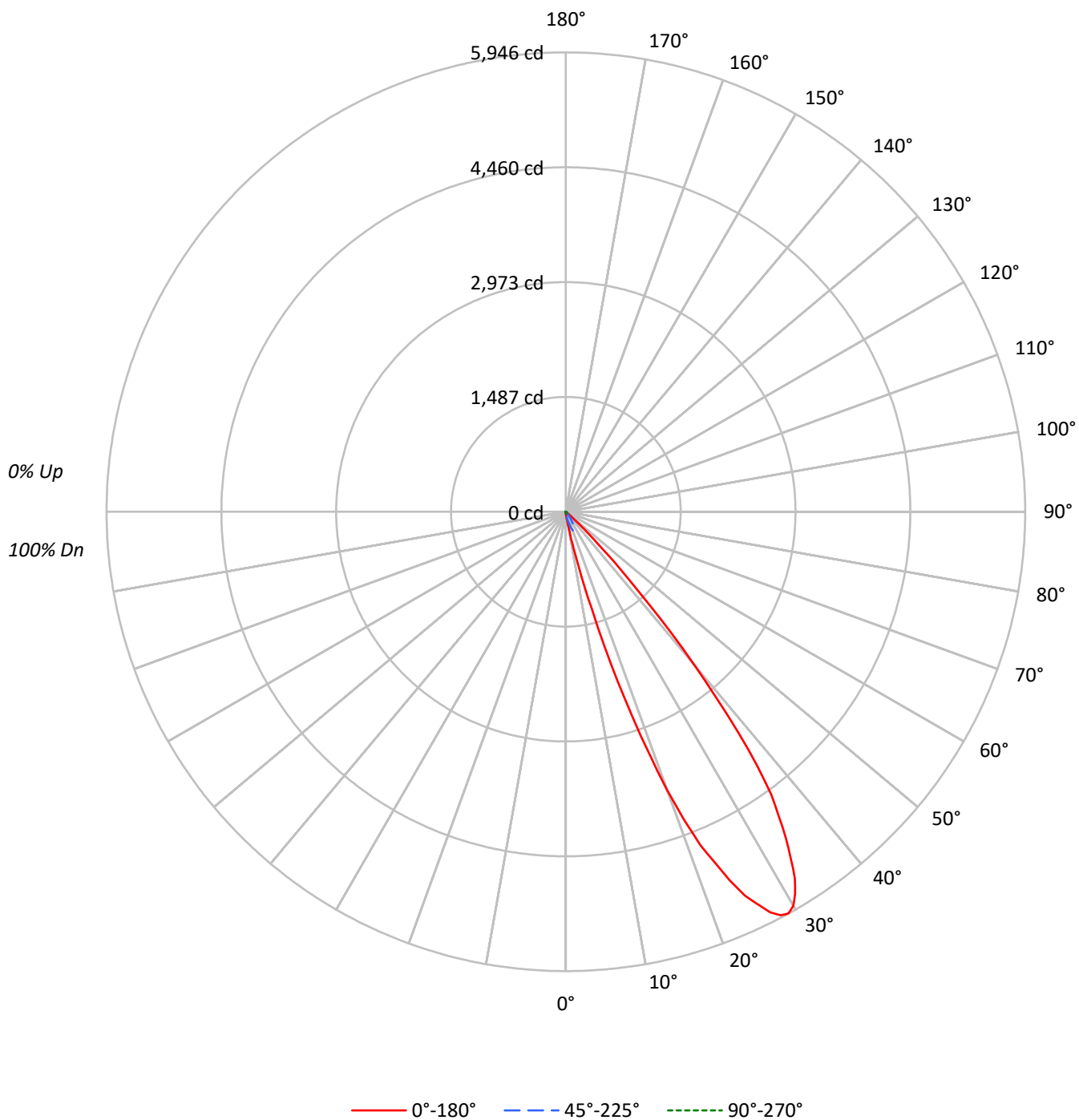
Lumens per Lamp: N/A
Luminaire Lumens: 834.0 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1344083

CATALOG NUMBER: P3A13R209835DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1344083

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6315	6315	6315	6315	6315
5°	14484	10830	5987	3654	3170
10°	45646	18860	4876	2026	1514
15°	295779	34870	3610	681	182
20°	892694	59669	2474	0	0
25°	1325786	60221	1476	0	0
30°	1490888	45779	582	0	0
35°	1286368	27331	402	0	0
40°	740731	9303	0	0	0
45°	180670	3752	248	0	248
50°	21697	1023	273	273	785
55°	2906	0	573	573	1147
60°	351	0	1009	1009	1667
65°	415	415	1557	1557	2335
70°	513	513	1923	1923	2436
75°	0	678	2542	1949	2542
80°	0	1010	2904	1894	2904
85°	0	2013	5787	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 181848 cd/sqm

TEST NUMBER: P1344083

CATALOG NUMBER: P3A13R209835DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.5
10°-20°	77.3	9.3
20°-30°	336.9	40.4
30°-40°	339.3	40.7
40°-50°	68.1	8.2
50°-60°	3.4	0.4
60°-70°	2.3	0.3
70°-80°	2.0	0.2
80°-90°	1.0	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	418.0	50.1
0°-40°	757.3	90.8
0°-60°	828.8	99.4
0°-90°	834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	834.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	66	49	27	17	14	10
15°	1303	154	16	3	1	510
25°	5480	249	6	0	0	2471
35°	4805	102	2	0	0	2859
45°	583	12	1	0	1	634
55°	8	0	2	2	3	14
65°	1	1	3	3	4	1
75°	0	1	3	2	3	0
85°	0	1	2	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1344083

CATALOG NUMBER: P3A13R209835DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
2.5°	43.1	43.1	42.4	42.4	41.6	42.4	40.9	41.6	41.6	40.9	37.1
5°	65.8	67.3	66.6	66.6	65.8	66.6	65.1	63.6	62.0	62.0	49.2
7.5°	108.2	107.4	105.9	106.7	104.4	102.9	101.4	100.6	96.1	93.8	64.3
10°	205.0	209.6	205.8	205.0	191.4	190.7	181.6	168.7	157.4	151.3	84.7
12.5°	564.5	588.7	550.8	532.7	522.1	481.2	463.8	419.2	376.0	343.5	107.4
15°	1302.9	1362.7	1286.3	1291.6	1228.0	1111.5	1009.4	921.6	817.9	713.5	153.6
17.5°	2552.9	2504.5	2462.8	2392.5	2263.1	2092.1	1871.9	1648.7	1455.8	1253.7	214.1
20°	3825.5	3782.4	3687.8	3534.2	3369.3	3115.8	2854.0	2518.8	2194.2	1890.1	255.7
21°	4263.6	4249.3	4094.2	3999.6	3745.3	3503.2	3201.3	2842.7	2477.2	2117.1	262.6
22°	4654.8	4568.6	4485.3	4345.4	4092.6	3829.3	3493.4	3115.8	2719.3	2319.1	263.3
23°	4925.7	4886.4	4807.7	4649.5	4398.3	4088.9	3734.8	3339.8	2922.1	2462.1	261.0
24°	5225.3	5175.4	5060.4	4875.8	4622.3	4316.6	3912.6	3520.6	3066.6	2582.4	255.0
25°	5479.6	5401.6	5265.4	5066.4	4789.5	4474.0	4067.7	3637.1	3167.3	2663.4	248.9
26°	5644.5	5602.1	5427.3	5210.9	4914.3	4589.0	4174.4	3726.4	3232.3	2700.4	239.1
27°	5816.3	5738.3	5566.6	5317.6	4996.1	4663.9	4234.9	3769.6	3255.0	2701.9	227.0
28°	5914.6	5829.9	5635.4	5373.6	5049.0	4705.5	4269.7	3783.2	3250.5	2678.5	212.6
29°	5945.6	5839.0	5649.0	5382.7	5061.9	4708.5	4264.4	3763.5	3210.4	2621.0	196.0
30°	5888.1	5779.2	5599.1	5339.6	5021.0	4670.7	4215.2	3698.4	3139.3	2538.5	180.8
31°	5762.5	5670.2	5496.2	5235.9	4930.2	4582.2	4104.0	3591.7	3018.2	2428.0	163.4
32°	5596.8	5506.0	5335.0	5099.7	4788.7	4437.7	3951.9	3425.3	2876.0	2263.1	146.0
33°	5347.9	5295.7	5142.1	4917.4	4606.4	4231.1	3747.6	3226.3	2673.2	2080.0	130.9
34°	5095.9	5030.1	4922.7	4676.8	4342.3	3967.8	3481.3	2951.6	2425.8	1874.9	116.5
35°	4805.4	4766.0	4597.3	4400.6	4064.6	3681.8	3198.3	2684.5	2137.5	1646.4	102.1
36°	4523.9	4463.4	4271.2	4063.1	3737.0	3323.1	2845.7	2363.0	1888.6	1432.3	87.0
37°	4115.3	4023.0	3886.1	3666.7	3285.3	2932.7	2496.9	2049.0	1582.1	1200.8	70.4
38°	3634.9	3591.7	3401.8	3180.9	2865.4	2530.9	2099.7	1719.8	1305.2	1002.5	53.7
39°	3068.2	3067.4	2885.8	2726.2	2417.5	2116.3	1727.4	1396.0	1077.4	807.3	41.6
40°	2587.7	2498.4	2386.4	2185.9	1949.1	1693.4	1352.9	1092.6	836.1	650.7	32.5
42.5°	1356.6	1349.1	1283.3	1132.7	1000.3	849.7	675.7	562.9	440.4	358.6	20.4
45°	582.6	586.4	541.0	518.3	466.8	404.0	341.2	284.5	243.6	197.5	12.1
47.5°	147.5	141.5	140.0	145.3	145.3	140.7	126.4	118.8	109.7	100.6	6.8
50°	63.6	62.0	60.5	60.5	56.7	54.5	50.7	46.2	42.4	37.8	3.0
52.5°	23.5	24.2	25.0	24.2	24.2	23.5	23.5	22.7	20.4	18.2	1.5
55°	7.6	7.6	7.6	8.3	8.3	9.1	9.1	9.1	9.1	8.3	0.0
57.5°	1.5	1.5	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.0	0.0
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.8	0.0	0.8	0.8	0.0	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: P3A13R209835DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	28.8	28.8	28.8	28.8	28.8	28.8
2.5°	33.3	29.5	25.0	21.2	20.4	19.7
5°	37.1	27.2	20.4	16.6	15.1	14.4
7.5°	40.1	25.0	16.6	12.1	10.6	9.8
10°	41.6	21.9	13.6	9.1	6.8	6.8
12.5°	42.4	18.9	9.8	6.1	3.8	3.8
15°	41.6	15.9	7.6	3.0	0.8	0.8
17.5°	37.8	12.9	4.5	0.8	0.0	0.0
20°	32.5	10.6	3.0	0.0	0.0	0.0
21°	31.0	9.1	2.3	0.0	0.0	0.0
22°	28.8	8.3	1.5	0.0	0.0	0.0
23°	26.5	7.6	1.5	0.0	0.0	0.0
24°	24.2	6.8	0.8	0.0	0.0	0.0
25°	22.7	6.1	0.8	0.0	0.0	0.0
26°	21.2	5.3	0.8	0.0	0.0	0.0
27°	18.9	4.5	0.0	0.0	0.0	0.0
28°	17.4	3.8	0.0	0.0	0.0	0.0
29°	15.1	3.0	0.0	0.0	0.0	0.0
30°	12.9	2.3	0.0	0.0	0.0	0.0
31°	10.6	2.3	0.0	0.0	0.0	0.0
32°	9.1	1.5	0.0	0.0	0.0	0.0
33°	7.6	1.5	0.0	0.0	0.0	0.0
34°	6.8	1.5	0.0	0.0	0.0	0.0
35°	6.1	1.5	0.0	0.0	0.0	0.0
36°	4.5	0.8	0.0	0.0	0.0	0.0
37°	3.8	0.8	0.0	0.0	0.0	0.0
38°	3.0	0.8	0.0	0.0	0.0	0.0
39°	2.3	0.0	0.0	0.0	0.0	0.0
40°	2.3	0.0	0.0	0.0	0.0	0.0
42.5°	0.8	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.8	0.0	0.0	0.8	0.8
47.5°	0.0	0.8	0.0	0.0	0.8	1.5
50°	0.0	0.8	0.8	0.8	1.5	2.3
52.5°	0.0	1.5	0.8	0.8	2.3	2.3
55°	0.8	1.5	0.8	1.5	3.0	3.0
57.5°	0.8	1.5	1.5	2.3	3.0	3.8
60°	1.5	2.3	2.3	2.3	3.8	3.8
62.5°	1.5	2.3	3.0	3.0	3.8	4.5
65°	1.5	3.0	3.0	3.0	3.8	4.5
67.5°	2.3	3.0	3.0	3.0	3.8	4.5
70°	2.3	3.0	3.0	3.0	3.8	3.8
72.5°	2.3	3.0	2.3	3.0	3.0	3.8
75°	2.3	3.0	2.3	2.3	3.0	3.0
77.5°	1.5	2.3	2.3	1.5	2.3	2.3
80°	1.5	2.3	1.5	1.5	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.5	2.3	1.5	0.8	1.5	1.5
85°	1.5	2.3	1.5	0.8	0.8	0.8
87.5°	1.5	2.3	1.5	0.8	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)